

SEQUENCE LISTING

<110> Uebele, Victor N.
Swanson, Richard J.
Liu, Yuan
Lagrutta, Armando

<120> NOVEL HUMAN CALCIUM SENSITIVE POTASSIUM
CHANNEL

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<140> 10/031,691

<141> 2002-01-22

<150> PCT/US00/19585

<151> 2000-07-18

<150> 60/144,764

<151> 1999-07-20

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<213> Human

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<212> PRT

<213> Homo Sapiens

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<212> PRT
<213> Homo Sapiens
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<400> 4

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 35 40 45
 Ser Ser Thr Gly Glu Asp Arg Ala Val Met Leu Gly Phe Ala Met Met
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 Gly Phe Ser Val Leu Met Phe Phe Leu Leu Gly Thr Thr Ile Leu Lys
 65 70 75 80
 Pro Phe Met Leu Ser Ile Gln Arg Glu Glu Ser Thr Cys Thr Ala Ile
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 His Thr Asp Ile Met Asp Asp Trp Leu Asp Cys Ala Phe Thr Cys Gly
 100 105 110
 Val His Cys His Gly Gln Gly Lys Tyr Pro Cys Leu Gln Val Phe Val
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 Asn Leu Ser His Pro Gly Gln Lys Ala Leu Leu His Tyr Asn Glu Glu
 130 135 140
 Ala Val Gln Ile Asn Pro Lys Cys Phe Tyr Thr Pro Lys Cys His Gln
 145 150 155 160
 Asp Arg Ser Asp Leu Leu Asn Ser Ala Leu Asp Ile Lys Glu Phe Phe
 165 170 175
 Asp His Lys Asn Gly Thr Pro Phe Ser Cys Phe Tyr Ser Pro Ala Ser
 180 185 190
 Gln Ser Glu Asp Val Ile Leu Ile Lys Lys Tyr Asp Gln Met Ala Ile
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 Phe His Cys Leu Phe Trp Pro Ser Leu Thr Leu Leu Gly Gly Ala Leu
 210 215 220
 Ile Val Gly Met Val Arg Leu Thr Gln His Leu Ser Leu Leu Cys Glu
 225 230 235 240
 Lys Tyr Ser Thr Val Val Arg Asp Glu Val Gly Gly Lys Val Pro Tyr
 245 250 255
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 Arg Ala Glu Lys Ser
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 <213> Human

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<210> 6
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Leu Met Phe Phe Leu Leu Gly Thr Thr Ile Leu Lys Pro Phe Met Leu
50     55     60
Ser Ile Gln Arg Glu Glu Ser Thr Cys Thr Ala Ile His Thr Asp Ile
65     70     75     80
Met Asp Asp Trp Leu Asp Cys Ala Phe Thr Cys Gly Val His Cys His
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Gly Gln Gly Lys Tyr Pro Cys Leu Gln Val Phe Val Asn Leu Ser His
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Pro Gly Gln Lys Ala Leu Leu His Tyr Asn Glu Glu Ala Val Gln Ile
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Asn Pro Lys Cys Phe Tyr Thr Pro Lys Cys His Gln Asp Arg Asn Asp
130    135    140
Leu Leu Asn Ser Ala Leu Asp Ile Lys Glu Phe Phe Asp His Lys Asn
145    150    155    160
Gly Thr Pro Phe Ser Cys Phe Tyr Ser Pro Ala Ser Gln Ser Glu Asp
165    170    175
Val Ile Leu Ile Lys Lys Tyr Asp Gln Met Ala Ile Phe His Cys Leu
180    185    190
Phe Trp Pro Ser Leu Thr Leu Leu Gly Gly Ala Leu Ile Val Gly Met
195    200    205
Val Arg Leu Thr Gln His Leu Ser Leu Leu Cys Glu Lys Tyr Ser Thr
210    215    220
Val Val Arg Asp Glu Val Gly Gly Lys Val Pro Tyr Ile Glu Gln His
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<210> 7
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 <212> DNA
 <213> Human

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<211> 275
<212> PRT
<213> Amino Acid

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35 40 45
Thr Gly Glu Asp Arg Ala Val Met Leu Gly Phe Ala Met Met Gly Phe
50 55 60
Ser Val Leu Met Phe Phe Leu Leu Gly Thr Thr Ile Leu Lys Pro Phe
65 70 75 80
Met Leu Ser Ile Gln Arg Glu Glu Ser Thr Cys Thr Ala Ile His Thr
85 90 95
Asp Ile Met Asp Asp Trp Leu Asp Cys Ala Phe Thr Cys Gly Val His
100 105 110
Cys His Gly Gln Gly Lys Tyr Pro Cys Leu Gln Val Phe Val Asn Leu
115 120 125
Ser His Pro Gly Gln Lys Ala Leu Leu His Tyr Asn Glu Glu Ala Val
130 135 140
Gln Ile Asn Pro Lys Cys Phe Tyr Thr Pro Lys Cys His Gln Asp Arg
145 150 155 160
Ser Asp Leu Leu Asn Ser Ala Leu Asp Ile Lys Glu Phe Phe Asp His
165 170 175
Lys Asn Gly Thr Pro Phe Ser Cys Phe Tyr Ser Pro Ala Ser Gln Ser
180 185 190
Glu Asp Val Ile Leu Ile Lys Lys Tyr Asp Gln Met Ala Ile Phe His
195 200 205
Cys Leu Phe Trp Pro Ser Leu Thr Leu Leu Gly Gly Ala Leu Ile Val
210 215 220
Gly Met Val Arg Leu Thr Gln His Leu Ser Leu Cys Glu Lys Tyr
225 230 235 240

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Ala	Ile 210	Phe	His	Cys	Leu	Phe 215	Trp	Pro	Ser	Leu	Thr 220	Leu	Leu	Gly	Gly
Ala 225	Leu	Ile	Val	Gly	Met 230	Val	Arg	Leu	Thr	Gln 235	His	Leu	Ser	Leu	Leu 240
Cys	Glu	Lys	Tyr	Ser 245	Thr	Val	Val	Arg	Asp 250	Glu	Val	Gly	Gly	Lys 255	Val
Pro	Tyr	Ile	Glu 260	Gln	His	Gln	Phe	Lys 265	Leu	Cys	Ile	Met	Arg 270	Arg	Ser
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Ile	Leu	Val	Thr	Thr	Val	Leu	Pro	Leu	Tyr	Gln	Lys	Ser	Val	Trp	Thr
		35					40					45			
Gln	Glu	Ser	Lys	Cys	His	Leu	Ile	Glu	Thr	Asn	Ile	Arg	Asp	Gln	Glu
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Glu	Leu	Lys	Gly	Lys	Lys	Val	Pro	Gln	Tyr	Pro	Cys	Leu	Trp	Val	Asn
65					70					75					80
Val	Ser	Ala	Ala	Gly	Arg	Trp	Ala	Val	Leu	Tyr	His	Thr	Glu	Asp	Thr
				85					90					95	
Arg	Asp	Gln	Asn	Gln	Gln	Cys	Ser	Tyr	Ile	Pro	Gly	Ser	Val	Asp	Asn
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Tyr	Gln	Thr	Ala	Arg	Ala	Asp	Val	Glu	Lys	Val	Arg	Ala	Lys	Phe	Gln
		115					120					125			
Glu	Gln	Gln	Val	Phe	Tyr	Cys	Phe	Ser	Ala	Pro	Arg	Gly	Asn	Glu	Thr
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Ser	Val	Leu	Phe	Gln	Arg	Leu	Tyr	Gly	Pro	Gln	Ala	Leu	Leu	Phe	Ser
145					150					155					160
Leu	Phe	Trp	Pro	Thr	Phe	Leu	Leu	Thr	Gly	Gly	Leu	Leu	Ile	Ile	Ala
				165					170					175	
Met	Val	Lys	Ser	Asn	Gln	Tyr	Leu	Ser	Ile	Leu	Ala	Ala	Gln	Lys	
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<210>	12
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<212>	DNA
<213>	Human

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<400> 12
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24

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<400> 13

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<400> 19
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